

# Notice of Allowability

Application No.

09/875,774

Examiner

Jamal A. Fox

Applicant(s)

CHOW ET AL.

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2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/25/2005.
2. ☒ The allowed claim(s) is/are 2-9, 12-19, 21 and 22 which have been renumbered as 1-18 respectively.
3. ☒ The drawings filed on 25 April 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 07202005
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Continuation of Substance of Interview including description of the general nature of what was discussed: Applicant provided authorization to cancel claims 11 and 23 and to amend claims 2, 3, 12, 13, 21 and 22. The amendment was necessary because I would have had to make another non-final rejection based on U.S. Patent No. 6,600,734 and U.S. Patent No. 6,831,902..

***Allowable Subject Matter***

1. Claims 2-9, 12-19, 21 and 22 which have been renumbered as 1-18 respectively are allowed.

2. The following is an examiner's statement of reasons for allowance: Regarding claims 1-18, the prior art of record fails to teach of a mobility service platform being connected for interacting with a network connected to a home location register; and updating a MS location by an inquiry address to a (HLR); and sending an attach message from a MS to a SGSN to initiate mobile station service; and providing information fragmentation/defragmentation in transfer of information through the gateway; and an interworking function connected for converting signaling and service protocols into a form suitable for integrating these services into the ATM network; and a GPRS backbone IP network connected to the GAGW by a SGSN; and a MSC connected to the ATM network by an IWF; and a base station connected to the ATM network by an IWF; and connecting base stations to the communication network through interworking functions for converting service protocols to achieve network integration. The closest reference, Dougherty et al. (U.S. Patent No. 6,831,902), teaches of a communication network providing voice, data and multimedia service integrating various wireless systems through an inner core ATM network comprising: base stations, a gateway, an ATM switch/router and a multi-service platform, but fails to teach of a mobility service platform being connected for interacting with a network connected to a home location register; and updating a MS location by an inquiry address to a (HLR); and sending an attach message from a MS to a SGSN to initiate

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mobile station service; and providing information fragmentation/defragmentation in transfer of information through the gateway; and an interworking function connected for converting signaling and service protocols into a form suitable for integrating these services into the ATM network; and a GPRS backbone IP network connected to the GAGW by a SGSN; and a MSC connected to the ATM network by an IWF; and a base station connected to the ATM network by an IWF; and connecting base stations to the communication network through interworking functions for converting service protocols to achieve network integration. Additionally, Gernert et al. (U.S. 6,600,734), teaches of integrating wired and wireless packet/cell transmission network with an ATM network comprising: access stations and a gateway, but fails to teach of a mobility service platform being connected for interacting with a network connected to a home location register; and updating a MS location by an inquiry address to a (HLR); and sending an attach message from a MS to a SGSN to initiate mobile station service; and providing information fragmentation/defragmentation in transfer of information through the gateway; and an interworking function connected for converting signaling and service protocols into a form suitable for integrating these services into the ATM network; and a GPRS backbone IP network connected to the GAGW by a SGSN; and a MSC connected to the ATM network by an IWF; and a base station connected to the ATM network by an IWF; and connecting base stations to the communication network through interworking functions for converting service protocols to achieve network integration. The closest reference, Dougherty et al. (U.S. Patent No. 6,831,902), teaches of a communication network providing voice, data and multimedia service

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integrating various wireless systems through an inner core ATM network comprising: base stations, a gateway, an ATM switch/router and a multi-service platform, but fails to teach of a mobility service platform being connected for interacting with a network connected to a home location register; and updating a MS location by an inquiry address to a (HLR); and sending an attach message from a MS to a SGSN to initiate mobile station service; and providing information fragmentation/defragmentation in transfer of information through the gateway; and an interworking function connected for converting signaling and service protocols into a form suitable for integrating these services into the ATM network; and a GPRS backbone IP network connected to the GAGW by a SGSN; and a MSC connected to the ATM network by an IWF; and a base station connected to the ATM network by an IWF; and connecting base stations to the communication network through interworking functions for converting service protocols to achieve network integration.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kin-Wah Tong on 7/20/2005.

Delete Claim 11 and Claim 23 because they have been cancelled.

Claim 2, line 18, after "stations", "." has been changed to --;-- and -- and updating a MS location by an inquiry addressed to a home location register (HLR).-- has been inserted.

Claim 3, line 17, after "cells", "." has been changed to --;-- and -- and providing information fragmentation/defragmentation in transfer of information through the gateway.-- has been inserted.

Claim 12, line 1, "The communication network as claimed in claim 11, comprising:" has been deleted and --A communication network in which wireless and wired networks are integrated into an interacting unified entire network for providing end-to-end transport of voice, data and multimedia in packet and cell format, comprising:

the unified entire network including;

a first communication network including at least one of wireless, wired, and IP service;

an ATM network having one of its switch/routing nodes connected to the first communication network by a gateway functioning to convert information of the first network to an ATM cell format;

a mobility server platform (MSP) connected to a ATM switch/routing node and functioning to provide call and routing services from the gateway to terminating ATM switching/routing nodes;

terminal interfaces connecting ATM switch/routing nodes to wireless base stations and including protocol conversion to convert ATM cells to wireless protocol; and

the gateway connecting the ATM network to the first communication network including, a protocol conversion for converting frame relay packet format to ATM cell format; and-- has been inserted.

Claim 13, line 1, "The communication network as claimed in claim 11, comprising:" has been deleted and --A communication network in which wireless and wired networks are integrated into an interacting unified entire network for providing end-to-end transport of voice, data and multimedia in packet and cell format, comprising:

the unified entire network including;

a first communication network including at least one of wireless, wired, and IP service;

an ATM network having one of its switch/routing nodes connected to the first communication network by a gateway functioning to convert information of the first network to an ATM cell format;

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a mobility server platform (MSP) connected to a ATM switch/routing node and functioning to provide call and routing services from the gateway to terminating ATM switching/routing nodes;

terminal interfaces connecting ATM switch/routing nodes to wireless base stations and including protocol conversion to convert ATM cells to wireless protocol; and

the gateway connecting the ATM network to the first communication network including, a protocol conversion for converting frame relay packet format to ATM cell format; and-- has been inserted.

Claim 21, line 17, after "switch/router", "." has been changed to --;-- and -- and connecting base stations to the communication network through interworking functions (IWF) for converting service protocols to achieve network integration.-- has been inserted.

Claim 22, line 1, after "The", "communication network" has been changed to --method--.

The applicants Deposit Account will be debited for one additional independent claim.



**Conclusion**

4. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

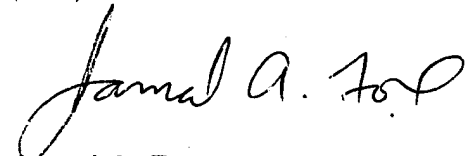
**or faxed to:**

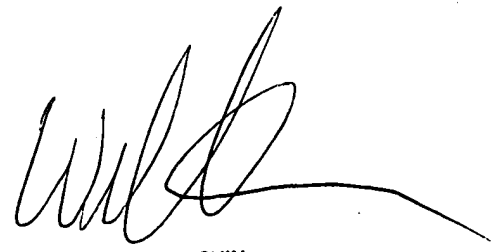
(571) 273-8300, (for formal communications intended for entry)

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamal A. Fox whose telephone number is (571) 272-3143. The examiner can normally be reached on Monday-Friday 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 2600 Customer Service whose telephone number is (571) 272-2600.

  
Jamal A. Fox

  
WELLINGTON CHIN  
SUPERVISORY PATENT EXAMINEE